NOUS41 KWBC 011753
PNSWSH

Technical Implementation Notice 14-34
National Weather Service Headquarters Washington DC
153 PM EDT Fri Aug 1 2014

To: Subscribers:
-Family of Services
-NOAA Weather Wire Service
-Emergency Managers Weather Information Network
-NOAAPort
Other NWS Partners, Users and Employees

From: Cynthia Abelman
Chief, Aviation Services Branch

Subject: Changes to Current Icing Product (CIP) and Forecast Icing Product (FIP): Effective September 2, 2014

Note: The following changes have no impact on NOAA Weather Wire Service subscribers.

Effective at 1500 Coordinated Universal Time (UTC) on September 2, 2014, the National Weather Service (NWS) Aviation Weather Center (AWC) in Kansas City, Missouri will implement changes to the Current Icing Product (CIP) and the Forecast Icing Product (FIP). The CIP produces a 0-hour analysis and FIP produces a 1-, 2-, 3-, 6-, 9- and 12-hour forecast for icing severity, probability, and supercooled liquid drops (SLD) every hour. These changes include:

- Resolution of the grid spacing will increase from 20 km to 13 km.
- Forecast data files will now be produced in gridded binary version two (GRIB2) format.
- The CIP and FIP will be produced automatically from the 13 km Weather Research and Forecasting Rapid Refresh (RAP) model runs.

The World Meteorological Organization (WMO) headings for the FIP are as follows:

WMO Heading	Flight Level
Y[AW,AX,LX]*30 KKCI	FL300
Y[AW,AX,LX]*32 KKCI	FL290
Y[AW,AX,LX]*33 KKCI	FL280
Y[AW,AX,LX]*34 KKCI	FL270
Y[AW,AX,LX]*36 KKCI	FL260
Y[AW,AX,LX]*38 KKCI	FL250
Y[AW,AX,LX]*39 KKCI	FL240
Y[AW,AX,LX]*41 KKCI	FL230
Y[AW,AX,LX]*43 KKCI	FL220
Y[AW,AX,LX]*45 KKCI	FL210
Y[AW,AX,LX]*46 KKCI	FL200
Y[AW,AX,LX]*48 KKCI	FL190

Y[AW,AX,LX]*50 KKCI FL180
Y[AW,AX,LX]*53 KKCI FL170
Y[AW,AX,LX]*55 KKCI FL160
Y[AW,AX,LX]*57 KKCI FL150
Y[AW,AX,LX]*60 KKCI FL140
Y[AW,AX,LX]*62 KKCI FL130
Y[AW,AX,LX]*65 KKCI FL120
Y[AW,AX,LX]*67 KKCI FL110
Y[AW,AX,LX]*70 KKCI FL100
Y[AW,AX,LX]*73 KKCI FL090
Y[AW,AX,LX]*75 KKCI FL080
Y[AW,AX,LX]*78 KKCI FL070
Y[AW,AX,LX]*81 KKCI FL060
Y[AW,AX,LX]*84 KKCI FL050
Y[AW,AX,LX]*85 KKCI FL040
Y[AW,AX,LX]*90 KKCI FL030
Y[AW,AX,LX]*95 KKCI FL020
Y[AW,AX,LX]*93 KKCI FL010

Where AW = FIP PROBABILITY
AX = FIP SLD
LX = FIP Severity
* = B = 01 HOUR FORECAST
* = C = 02 HOUR FORECAST
* = D = 03 HOUR FORECAST
* = G = 06 HOUR FORECAST
* = J = 09 HOUR FORECAST
* = M = 12 HOUR FORECAST

The WMO headings for the CIP are as follows:

WMO Heading	Flight Level
Y[I,J,L]XA30 KKCI	FL300
Y[I,J,L]XA32 KKCI	FL290
Y[I,J,L]XA33 KKCI	FL280
Y[I,J,L]XA34 KKCI	FL270
Y[I,J,L]XA36 KKCI	FL260
Y[I,J,L]XA38 KKCI	FL250
Y[I,J,L]XA39 KKCI	FL240
Y[I,J,L]XA41 KKCI	FL230
Y[I,J,L]XA43 KKCI	FL220
Y[I,J,L]XA45 KKCI	FL210
Y[I,J,L]XA46 KKCI	FL200
Y[I,J,L]XA48 KKCI	FL190
Y[I,J,L]XA50 KKCI	FL180
Y[I,J,L]XA53 KKCI	FL170
Y[I,J,L]XA55 KKCI	FL160
Y[I,J,L]XA57 KKCI	FL150
Y[I,J,L]XA60 KKCI	FL140
Y[I,J,L]XA62 KKCI	FL130
Y[I,J,L]XA65 KKCI	FL120
Y[I,J,L]XA67 KKCI	FL110
Y[I,J,L]XA70 KKCI	FL100

Y[I,J,L]XA73 KKCI FL090
Y[I,J,L]XA75 KKCI FL080
Y[I,J,L]XA78 KKCI FL070
Y[I,J,L]XA81 KKCI FL060
Y[I,J,L]XA84 KKCI FL050
Y[I,J,L]XA85 KKCI FL040
Y[I,J,L]XA90 KKCI FL030
Y[I,J,L]XA95 KKCI FL020
Y[I,J,L]XA93 KKCI FL010

Where I = CIP PROBABILITY
J = CIP SLD
L = CIP Severity

On September 01 2014, Forecast Icing Product output in GRIB2 Format will be available through:

NWS file transfer protocol (FTP) servers at:
ftp://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.fipgb

Family of Services high-resolution data service and server access service and Satellite Broadcast Network NOAAPort Channel.

Changes will also be applied to the Aviation Digital Data Service:

http://www.aviationweather.gov/adds

If you have any questions regarding the Current Icing Product or Forecast Icing Product, contact:

Dr. Brian Pettegrew
Research Meteorologist
Aviation Weather Center
Kansas City, MO
Phone 816-584-7256
Email: brian.p.pettegrew@noaa.gov

or

Mr. Pat Murphy
Warning Coordination Meteorologist
Aviation Weather Center
Kansas City, MO
Phone: 816-584-7239
Email: michael.pat.murphy@noaa.gov

National Technical Implementation Notices are online at:

https://www.weather.gov/notification/archive

$$
NNNN